

Message

**From:** Nadine Kotlarz [nkotlar@ncsu.edu]  
**Sent:** 5/24/2018 5:05:50 PM  
**To:** Jane Hoppin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=userebcfc262]  
**CC:** Adrien Wilkie [aawilkie@ncsu.edu]; Detlef R. U. Knappe [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=user17c3f77b]; Lindstrom, Andrew [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=04bf7cf26aa44ce29763fbc1c1b2338e-Lindstrom, Andrew]; Strynar, Mark [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5a9910d5b38e471497bd875fd329a20a-Strynar, Mark]  
**Subject:** Re: supplement research strategy

Below are the compounds that the Orbitrap method is working for. Mark, can you take a look at the new compounds from Chemours (in red) and make sure the chemical names look okay? I pulled them from the MSDSs from Chemours.

1. GenX Perfluoro-2-propoxypropanoic acid
2. Nafion byproduct 2 Ethanesulfonic acid, 2-[1-[difluoro(1,2,2,2-tetrafluoroethoxy)methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoro-
3. PFO5DoDA Sodium 2,2,4,4,6,6,8,8,10,10,12,12,12-tridecafluoro-3,5,7,9,11-pentaoxadodecanoate
4. PFO4DA Perfluoro(3,5,7,9-tetraoxadecanoic) acid
5. PEPA Sodium 2,3,3,3-tetrafluoro-2-(perfluoroethoxy)propanoic acid
6. NVHOS Sodium 1,1,2,2-tetrafluoro-2-(1,2,2,2-tetrafluoro-ethoxy)ethane sulfonate
7. PFHxS Perfluorohexane sulfonic acid
8. PFOS Perfluorooctane sulfonic acid
9. PFOA Perfluorooctanoic acid
10. PFHpA Perfluoroheptanoic acid
11. PFNA Perfluorononanoic acid
12. PFDA Perfluorodecanoic acid
13. PFBA Perfluorobutanoic acid
14. PFBS Perfluorobutane sulfonic acid
15. PFHxA Perfluorohexanoic acid

On Thu, May 24, 2018 at 11:48 AM, Jane Hoppin <jahoppin@ncsu.edu> wrote:

Thanks all for making my quick scribble more polished.

I think I will include the list of chemicals that we're measuring. Nadine, can you make me a list of what we're currently measuring in serum along with their name?

I'll add some references and then get it in for submission.

On Thu, May 24, 2018 at 10:20 AM, Adrien Wilkie <aawilkie@ncsu.edu> wrote:

My edits are also included.

I've also attached an EJ Screen report for the 5 miles surrounding the Chemours plant. Perhaps the most interesting piece in that report is that there are approximately 7450 people living in this 5-mile buffer, 43% Minority Population compared to the 36% state average. I believe this is calculated using the American Community Survey/ Census. (unclear how EJ Screen defines "minority population" in this report)

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Adrien Wilkie, MSPH  
Research Assistant  
GenX Exposure Study

On Thu, May 24, 2018 at 9:23 AM, Detlef Knappe <[knappe@ncsu.edu](mailto:knappe@ncsu.edu)> wrote:  
Now with my edits included.  
Detlef

On Wed, May 23, 2018 at 2:28 PM, Nadine Kotlarz <[nkotlar@ncsu.edu](mailto:nkotlar@ncsu.edu)> wrote:  
Hi Jane,  
I added some language about the Orbitrap to the Chemical Analysis section.

Nadine

On Wed, May 23, 2018 at 8:47 AM, Lindstrom, Andrew <[Lindstrom.Andrew@epa.gov](mailto:Lindstrom.Andrew@epa.gov)> wrote:

Jane,

This looks great.

I only had a few minor comments.

Please let me know if you need more.

Thank you,

Andy

**From:** Jane Hoppin [<mailto:jahoppin@ncsu.edu>]

**Sent:** Tuesday, May 22, 2018 4:40 PM

**To:** Detlef R. U. Knappe <[knappe@ncsu.edu](mailto:knappe@ncsu.edu)>; Nadine Kotlarz <[nkotlar@ncsu.edu](mailto:nkotlar@ncsu.edu)>; Lindstrom, Andrew <[Lindstrom.Andrew@epa.gov](mailto:Lindstrom.Andrew@epa.gov)>; Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>; Adrien Wilkie

<[aawilkie@ncsu.edu](mailto:aawilkie@ncsu.edu)>

**Subject:** supplement research strategy

Hi guys,

Attached is the R21 supplement that I plan to submit by Friday.

I need to add the references in ... but could use some more information from you about the analytical methods and the backstory around the plant.

If you have time to take a look tomorrow and get me something by Thursday morning, that would be great. If not, that's fine too.

Thanks.

Jane

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Jane Hoppin, ScD

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